

PARTS BOX
These are the actual parts used

These are Micro Maxx engine modification parts for the model as made by:
Niels Jahn Knudsen
Conversion parts by:
Erio Truax

HIGH FLYING YARDS

Print out this sheet, or at least the Parts Box, on 65-67lb 145gm2 cardstock



www.geocities.com/nielspapermodels/

NOTE- The lower part of the motor mount, which sticks out from the base of the rocket, has been changed to a Dk. grey color, and is not shown in the pictures of the completed Viking-10 flying model.

Step-1: Log on and visit www.geocities.com/nielspapermodels/ to download the original Viking-10 model.

Step-2: On the original instructions, follow step 1, Skip step 2 and all parts.

Step-3: Cut out part B-1, but cut the top half off the glue tabs. assemble as per these parts of the original instructions.

Make sure, that it fits very precise in to part A

3



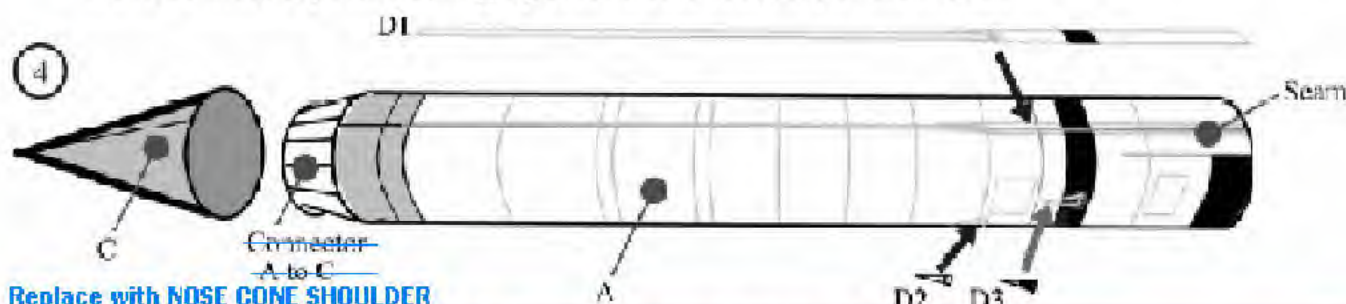
cut the top 1/2 off of these strips



Roll part B1 to cylinder.
Print in the inside
- glue tab on the outside.

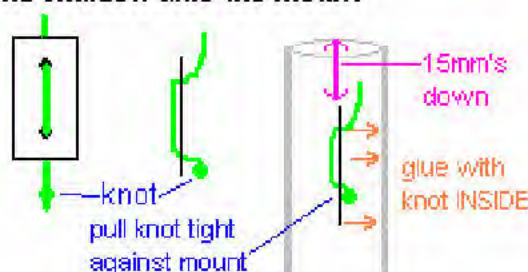
Fold down the glue tabs at the top.

Step-4: Follow the original instructions through 4 Substitute the nose cone connector on this sheet for the connector A-C. Glue the tabs into the nose cone, but do not glue the shoulder into the rocket body! The nose must separate during flight for a safe recovery of the model!



Step-5: Cut out the shock cord mount, and punch out the 2 black dots.

Thread a piece of string, kevlar, elastic-etc about 8-10"-20-25cm's long Through the holes, and tie a knot. Glue the threaded mount into the body tube about 1/2" - 15mm down, to clear the nose cone shoulder. Glue the mount with the knot **INSIDE** (against tube), and the string pulled tight, so that the knot is also sandwiched between the tube, and the mount paper.



Step-6: After the glue has set on the shock cord body mount, tie a knot in the other end of the string. Place a drop or 2 of white glue into the nose, and insert the knot as far you can into the nose and glue. Use a small rod/stick to help push completely forward. **LET DRY COMPLETELY!**



Step-7: A- Wrap the engine mount around 2 used MMX casings, and glue. Let dry



B- Glue the centering rings to another piece of cardstock. Let dry. Cut out the center grey area, then cut out the centering rings.



cut out center

C- glue the smaller lower ring on the lower ring line.



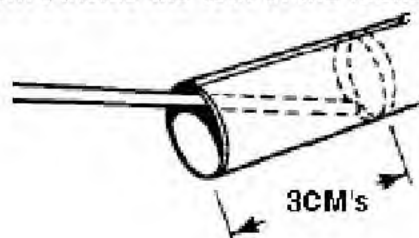
E- Glue the larger ring over the top RING line.



D- glue part B-1 over the lower centering ring.

Allow everything to completely dry.

Step-8: A- Using a toothpick or similar, smear a ring of glue 3 cm's inside the rear of the rocket body tube.



B- Smear another bead glue on the outside of part B-1.



C- With one smooth motion, insert the completed engine mount, so that part B-1 is flush with the rear of the rocket body tube. Let the completed assembly dry completely.



(side view shown with motor installed)



Step-9: A- Cut out and fit the engine block strip into the rear of the engine mount. Glue the strip so that it fits tight against the inside wall of the motor mount. **DO NOT GLUE THE BLOCK INSIDE THE MOTOR MOUNT!**



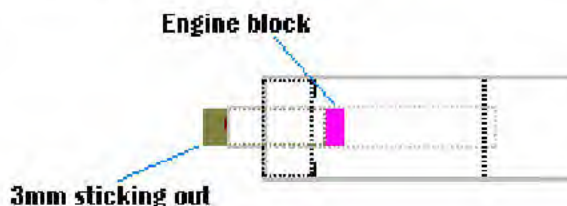
B- Remove the engine block, and use a toothpick or similar run a bead of glue around the inside of the motor mount tube about 15mm's from the rear.



C- Mark an engine casing by using tape, or score a line 3mm's from one end of the casing.

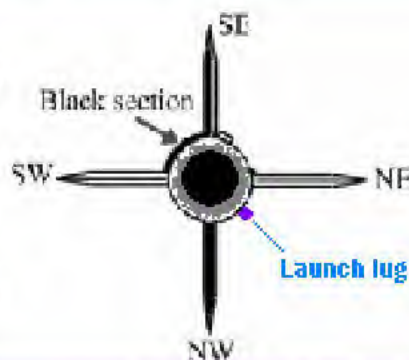


D- Insert the engine casing in to the rear of the motor tube, pushing the motor block up, until the mark on the casing is even with the rear of the motor tube.

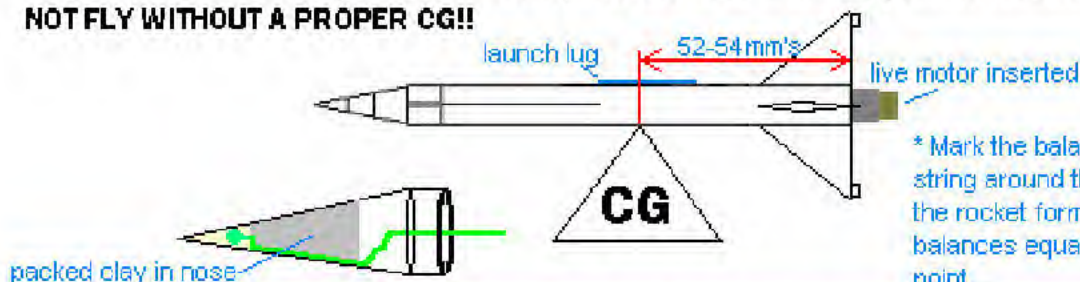


Step-10: Follow the regular instructions for steps **5** **6**

Step-11: Cut out and roll the lug strip loosely around an mmx size launch rod. Glue the ends where they meet, then glue the lug to the body centered between fins NE and NW, with the rear of the lug 40mm's from the rear of the rocket body. Align the lug straight along the body tube.



Step-12: CG (center of gravity)/Balance Point.- The CG is located 52-54mm's FROM THE REAR OF THE ROCKET! TO achieve this- Load rocket with a live motor, and all the recovery devices (if any) Add weight using model clay, or other means, into the nose until this point is reached. **THE ROCKET WILL NOT FLY WITHOUT A PROPER CG!!**



* Mark the balance point with a pencil. Tie a string around the rocket at this point, and hang the rocket from the string. Adjust till rocket balances equally from the string at the marked point.

Step-13: Give your Viking-10 a clear coat finish to protect it

Use a piece of masking tape to friction fit an MMX motor, get your pad, and it's **LAUNCH TIME!**

